

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/757,590
Source: JFWO
Date Processed by STIC: 09/27/2005

ENTERED



IFWO

RAW SEQUENCE LISTING

DATE: 09/27/2005

PATENT APPLICATION: US/10/757,590

TIME: 09:26:36

Input Set : N:\CrF3\RULE60\10757590.raw

Output Set: N:\CRF4\09272005\J757590.raw

```

1 <110> APPLICANT: HORWITZ, Marshall S.
2     LOEB, Lawrence A.
3 <120> TITLE OF INVENTION: METHOD FOR PRODUCING NOVEL DNA SEQUENCES WITH
4     BIOLOGICAL ACTIVITY
5 <130> FILE REFERENCE: 032425-001
6 <140> CURRENT APPLICATION NUMBER: US/10/757,590
7 <141> CURRENT FILING DATE: 2004-01-15
8 <150> PRIOR APPLICATION NUMBER: US/09/132,231
9 <151> PRIOR FILING DATE: 1998-08-11
10 <150> PRIOR APPLICATION NUMBER: US 08/316,415
11 <151> PRIOR FILING DATE: 1994-09-30
12 <160> NUMBER OF SEQ ID NOS: 57
13 <170> SOFTWARE: PatentIn Ver. 2.0
15 <210> SEQ ID NO: 1
16 <211> LENGTH: 17
17 <212> TYPE: DNA
18 <213> ORGANISM: Escherichia coli
19 <220> FEATURE:
20 <221> NAME/KEY: misc_difference
21 <222> LOCATION: (1)..(9)
22 <223> OTHER INFORMATION: Nucleotide at position 9 is n wherein n = a, c, g,
23     or t.
24 <400> SEQUENCE: 1
W--> 25     ccgaattcna tcgatcc                                17
27 <210> SEQ ID NO: 2
28 <211> LENGTH: 17
29 <212> TYPE: DNA
30 <213> ORGANISM: Escherichia coli
31 <220> FEATURE:
32 <221> NAME/KEY: misc_feature
33 <222> LOCATION: (1)..(9)
34 <223> OTHER INFORMATION: Nucleotide at position 9 is n wherein n = c, g, or
35     t.
36 <400> SEQUENCE: 2
W--> 37     ccgaattcna tcgatcc                                17
39 <210> SEQ ID NO: 3
40 <211> LENGTH: 11
41 <212> TYPE: DNA
42 <213> ORGANISM: Escherichia coli
43 <400> SEQUENCE: 3
44     tgcggtagtt t                                           11
46 <210> SEQ ID NO: 4
47 <211> LENGTH: 26

```

RAW SEQUENCE LISTING

DATE: 09/27/2005

PATENT APPLICATION: US/10/757,590

TIME: 09:26:36

Input Set : N:\CrF3\RULE60\10757590.raw

Output Set: N:\CRF4\09272005\J757590.raw

```

48 <212> TYPE: DNA
49 <213> ORGANISM: Escherichia coli
50 <400> SEQUENCE: 4
51      aattcttggg cgcgcgtcgg cttgat                26
53 <210> SEQ ID NO: 5
54 <211> LENGTH: 24
55 <212> TYPE: DNA
56 <213> ORGANISM: Escherichia coli
57 <400> SEQUENCE: 5
58      cgatcaagcc gacgcgcgcc caag                24
60 <210> SEQ ID NO: 6
61 <211> LENGTH: 20
62 <212> TYPE: DNA
63 <213> ORGANISM: Escherichia coli
64 <400> SEQUENCE: 6
65      tttctgggtg catactcttc                20
67 <210> SEQ ID NO: 7
68 <211> LENGTH: 26
69 <212> TYPE: DNA
70 <213> ORGANISM: Escherichia coli
71 <400> SEQUENCE: 7
72      tttctgggtg agacctcata ctcttc                26
74 <210> SEQ ID NO: 8
75 <211> LENGTH: 20
76 <212> TYPE: DNA
77 <213> ORGANISM: Escherichia coli
78 <220> FEATURE:
79 <221> NAME/KEY: misc_feature
80 <222> LOCATION: (1)..(11)
81 <223> OTHER INFORMATION: Nucleotide at position 11 is n wherein n = a, c,
82      g, or t.
83 <400> SEQUENCE: 8
W--> 84      ggggagatct nagatctggg                20
86 <210> SEQ ID NO: 9
87 <211> LENGTH: 10
88 <212> TYPE: DNA
89 <213> ORGANISM: Escherichia coli
90 <400> SEQUENCE: 9
91      ccccagatct                10
93 <210> SEQ ID NO: 10
94 <211> LENGTH: 47
95 <212> TYPE: DNA
96 <213> ORGANISM: Escherichia coli
97 <220> FEATURE:
98 <221> NAME/KEY: misc_feature
99 <222> LOCATION: (16)..(38)
100 <223> OTHER INFORMATION: Nucleotides 16 to 38 are n wherein n = unspecified
101      bases.
102 <400> SEQUENCE: 10

```

RAW SEQUENCE LISTING

DATE: 09/27/2005

PATENT APPLICATION: US/10/757,590

TIME: 09:26:36

Input Set : N:\CrF3\RULE60\10757590.raw

Output Set: N:\CRF4\09272005\J757590.raw

```

W--> 103      cgccccgagg aacgtnnnnn nnnnnnnnnn nnnnnnnnag tactgct      47
105 <210> SEQ ID NO: 11
106 <211> LENGTH: 46
107 <212> TYPE: DNA
108 <213> ORGANISM: Escherichia coli
109 <220> FEATURE:
110 <221> NAME/KEY: misc_feature
111 <222> LOCATION: (18)..(26)
112 <223> OTHER INFORMATION: Nucleotides 18 to 26 are n wherein n = unspecified
113      bases.
114 <221> NAME/KEY: misc_feature
115 <222> LOCATION: (30)..(35)
116 <223> OTHER INFORMATION: Nucleotides 30 to 35 are n wherein n = unspecified
117      bases.
W--> 118 <400> 11
W--> 119      cgccccagga acgtttttnnn nnnnnnagcn nnnnnaaagt actgct      46
121 <210> SEQ ID NO: 12
122 <211> LENGTH: 47
123 <212> TYPE: DNA
124 <213> ORGANISM: Escherichia coli
125 <400> SEQUENCE: 12
126      cgccccgagg aacgttttcc cgtcatgagc atcatcaaag tactgct      47
128 <210> SEQ ID NO: 13
129 <211> LENGTH: 57
130 <212> TYPE: DNA
131 <213> ORGANISM: Escherichia coli
132 <400> SEQUENCE: 13
133      caagaattct catgtttgac agcttatcat cgataagctt taatgcggta gtttatc      57
135 <210> SEQ ID NO: 14
136 <211> LENGTH: 57
137 <212> TYPE: DNA
138 <213> ORGANISM: Escherichia coli
139 <400> SEQUENCE: 14
140      gttcttaaga gtacaaaactg tcgaatagta gctattcgaa attacgccat caaatag      57
142 <210> SEQ ID NO: 15
143 <211> LENGTH: 19
144 <212> TYPE: DNA
145 <213> ORGANISM: Escherichia coli
146 <220> FEATURE:
147 <221> NAME/KEY: misc_feature
148 <222> LOCATION: (1)..(15)
149 <223> OTHER INFORMATION: Nucleotides 1 to 19 are n wherein n = unspecified
150      bases.
151 <400> SEQUENCE: 15
W--> 152      nnnnnnnnnn nnnnnnnnnn      19
154 <210> SEQ ID NO: 16
155 <211> LENGTH: 40
156 <212> TYPE: DNA
157 <213> ORGANISM: Escherichia coli

```

RAW SEQUENCE LISTING

DATE: 09/27/2005

PATENT APPLICATION: US/10/757,590

TIME: 09:26:36

Input Set : N:\Crif3\RULE60\10757590.raw

Output Set: N:\CRF4\09272005\J757590.raw

```

158 <400> SEQUENCE: 16
159      ttctcatggtt tgacagctta tcatcgataa gctttaaatgc      40
161 <210> SEQ ID NO: 17
162 <211> LENGTH: 40
163 <212> TYPE: DNA
164 <213> ORGANISM: Escherichia coli
165 <400> SEQUENCE: 17
166      gtgcagaaac gccgcagggg aaagaactgc gccttgacat      40
168 <210> SEQ ID NO: 18
169 <211> LENGTH: 16
170 <212> TYPE: DNA
171 <213> ORGANISM: Escherichia coli
172 <400> SEQUENCE: 18
173      ggagccgccg atacgt      16
175 <210> SEQ ID NO: 19
176 <211> LENGTH: 19
177 <212> TYPE: DNA
178 <213> ORGANISM: Escherichia coli
179 <400> SEQUENCE: 19
180      aaggcagggg gggcgacat      19
182 <210> SEQ ID NO: 20
183 <211> LENGTH: 12
184 <212> TYPE: DNA
185 <213> ORGANISM: Escherichia coli
186 <400> SEQUENCE: 20
187      cccatgcaaa ta      12
189 <210> SEQ ID NO: 21
190 <211> LENGTH: 10
191 <212> TYPE: DNA
192 <213> ORGANISM: Escherichia coli
193 <400> SEQUENCE: 21
194      ttccgggtcc      10
196 <210> SEQ ID NO: 22
197 <211> LENGTH: 22
198 <212> TYPE: DNA
199 <213> ORGANISM: Escherichia coli
200 <400> SEQUENCE: 22
201      tcttgggcgc gcgtcggctt ga      22
203 <210> SEQ ID NO: 23
204 <211> LENGTH: 18
205 <212> TYPE: DNA
206 <213> ORGANISM: Escherichia coli
207 <400> SEQUENCE: 23
208      gccccttttc tcccttga      18
210 <210> SEQ ID NO: 24
211 <211> LENGTH: 23
212 <212> TYPE: DNA
213 <213> ORGANISM: Escherichia coli
214 <400> SEQUENCE: 24

```

RAW SEQUENCE LISTING

DATE: 09/27/2005

PATENT APPLICATION: US/10/757,590

TIME: 09:26:36

Input Set : N:\CrF3\RULE60\10757590.raw

Output Set: N:\CRF4\09272005\J757590.raw

215	cgccccctgcc ttgcgcttgt tcc	23
217	<210> SEQ ID NO: 25	
218	<211> LENGTH: 25	
219	<212> TYPE: DNA	
220	<213> ORGANISM: Escherichia coli	
221	<400> SEQUENCE: 25	
222	gcgtgtcggc ccccggtgtc cttca	25
224	<210> SEQ ID NO: 26	
225	<211> LENGTH: 19	
226	<212> TYPE: DNA	
227	<213> ORGANISM: Escherichia coli	
228	<400> SEQUENCE: 26	
229	cgtggcgcccc gtgcctttc	19
231	<210> SEQ ID NO: 27	
232	<211> LENGTH: 19	
233	<212> TYPE: DNA	
234	<213> ORGANISM: Escherichia coli	
235	<400> SEQUENCE: 27	
236	ctttcgggttg cgggcgtgc	19
238	<210> SEQ ID NO: 28	
239	<211> LENGTH: 19	
240	<212> TYPE: DNA	
241	<213> ORGANISM: Escherichia coli	
242	<400> SEQUENCE: 28	
243	cggcgggcgg ccgtgtcgg	19
245	<210> SEQ ID NO: 29	
246	<211> LENGTH: 19	
247	<212> TYPE: DNA	
248	<213> ORGANISM: Escherichia coli	
249	<400> SEQUENCE: 29	
250	gggcggtctc ccggtcgtt	19
252	<210> SEQ ID NO: 30	
253	<211> LENGTH: 15	
254	<212> TYPE: DNA	
255	<213> ORGANISM: Escherichia coli	
256	<400> SEQUENCE: 30	
257	ggcgggtggcg gccgc	15
259	<210> SEQ ID NO: 31	
260	<211> LENGTH: 29	
261	<212> TYPE: DNA	
262	<213> ORGANISM: Escherichia coli	
263	<400> SEQUENCE: 31	
264	gcccttgctt tggcggctt gctcgcccc	29
266	<210> SEQ ID NO: 32	
267	<211> LENGTH: 26	
268	<212> TYPE: DNA	
269	<213> ORGANISM: Escherichia coli	
270	<400> SEQUENCE: 32	
271	tcttcggctg gccttcgggc gagagt	26

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/757,590

DATE: 09/27/2005
TIME: 09:26:37

Input Set : N:\Crf3\RULE60\10757590.raw
Output Set: N:\CRF4\09272005\J757590.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 9
Seq#:2; N Pos. 9
Seq#:8; N Pos. 11
Seq#:10; N Pos. 16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35
Seq#:10; N Pos. 36,37,38
Seq#:11; N Pos. 18,19,20,21,22,23,24,25,26,30,31,32,33,34,35
Seq#:15; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19
Seq#:35; N Pos. 10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29
Seq#:35; N Pos. 30,31,32
Seq#:36; N Pos. 9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28
Seq#:36; N Pos. 29,30,31
Seq#:37; N Pos. 5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25
Seq#:37; N Pos. 26,27
Seq#:38; N Pos. 15,16,17,18,19,20,21,22,23,27,28,29,30,31,32
Seq#:39; N Pos. 11,12,13,14,15,16,17,18,19,23,24,25,26,27,28

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/757,590

DATE: 09/27/2005

TIME: 09:26:37

Input Set : N:\Crf3\RULE60\10757590.raw

Output Set: N:\CRF4\09272005\J757590.raw

L:25 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:37 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:84 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
L:103 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0
L:118 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:11
L:119 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
L:152 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
L:297 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:0
L:309 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36 after pos.:0
L:321 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:0
L:333 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:0
L:345 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:0